

HEAT IN RADIUM.

Radium, according to Madam Curie, one of its discoverers, represents an immense volume of heat. The radium of the world, which amounts to about 25,000 millions tons, produces the same amount of heat that could be produced by three billions of arc lights, all going at once. It's probably its presence in the interior of the earth that keeps us warm. According to this theory, the tropics or rather the soil of the tropics, must contain a surplus of radium, while the arctic regions have none. The German scientist, Dr. Carl Kurze, added to the above information what follows:

"One gramme of radium is equal to 400 pounds of coal; a small household could get along on 12 1/2 grammes of radium per annum."

"A single radium mine in Cornwall produces ten tons of uranium a year. One hundredth part of its output would suffice to supply heat for a city of considerable size a whole year."

"At present people know little more of radium than its price, \$24,000 a gramme. In England the price of a ton of uranium is \$10,000. "Five thousand pounds of coal cost in Europe \$45. The same amount of uranium can be bought for \$12 1/2. If we knew enough to use uranium scientifically we could furnish a household even today with heat for 12 1/2 cents a year."

After the latest discovery of radium-metal by Madam Curie, the question whether radium is an "element" or not is widely discussed by science.

TAN SHOES IN WINTER.

The tan shoe for winter wear for both men and women is a question which is under a rather excited discussion by shoe dealers all over the country. One would suppose that the keen shoe dealer would say "Wear any kind of a shoe, so long as you wear

them and wear them out. Some dealers have said they like to have their customers buy tan shoes at any time of year, for that means that that particular customer must buy two pairs of shoes, since the tan is not permissible on all occasions. But there is a division of opinion. Some of the dealers fear if the tan shoe is worn in winter people will become tired of them, and their present popularity will wane. The Shoe Dealer's association of the state of New York held a convention recently, and after the time-honored custom of conventions passed a series of resolutions, one of which asked the shoe manufacturers to discourage the wearing of tan shoes in winter on the ground that the all-the-year round wear will make people tired of them. Certain sticklers of vehemence and some sarcasm, that for fashion assert, with a good deal black should be the principal winter shoe and tan the principal shoe for summer. Some claim the right to wear tan shoes on the street and for business, and others protest that as men and women wear darker clothes in the winter they must confine themselves to the black shoe. It also is declared that the wearing of the tan shoe in winter by women is just as great a violation of the rules of correct dressing as it would be to wear a wrapper and gingham apron to a ball, than for a man to be seen in tan shoes on a day when the snow is flying is as incongruous as it would be for him to wear a straw hat in a snow storm. Then there are insinuating hints that the only people who cling to the tan shoe in zero weather are those who cannot afford the price of the new pair. In the meantime men and women gaze at the rows of high priced tan shoes and wonder if dealers will heed the request sent them from certain quarters not to make window displays of tan shoes in the cold season. Whatever the outcome, of one thing we are sure: That the enemies of the tan shoe in winter are making a strenuous warfare to keep it as a summer footwear.

DAILY FASHION TALKS

BY MAY MANTON

TRIMMING OF PERSIAN SILK.

PERSIAN silk in combination with plain colored silk or wool is much in vogue just now, and this gown shows the plain portions made of crepe de Chine, in a lovely shade of gray which is really exquisite in contrast with the Persian colors. The oddly shaped yoke is a feature, and the three-quarter sleeves are novel and attractive. The skirt is just sufficiently drawn in by the flounce to be smart, without being over tight. The same model can be varied in a great many different ways however. The entire skirt can be made to match the blouse with a yoke and under sleeves of lace. Or for the flounce can be used moiré silk or satin with the yoke and under sleeves of lace. Or again the yoke could be made to match the flounce, and for the under sleeves net could be used. But the Persian silk with crepe de Chine is new and smart. If liked the frill at the edge of the yoke can be omitted, but all feminine touches of the sort are to be greatly used this season. Such a gown as this one is fashionable for a great many occasions, and makes one of the most satisfactory costumes with which to begin the season.



6757 Fancy Waist, 34 to 42 bust.
6696 Five Gored Skirt, 22 to 30 waist.

FILL OUT THIS BLANK.

ARIZONA REPUBLICAN, Phoenix, Ariz.

Please order for me, 10 cents herewith to cover your charges:

Pattern No. Size

Name

Address

NOTE:—These Patterns are ordered for you from Chicago and require about 10 days to get them to you.



Where to Buy Nationally Advertised Goods in Phoenix

THIS PAGE is for the information of those who prefer to buy advertised goods, knowing them invariably to be the best. It is a list showing which stores in Phoenix carry the articles nationally advertised in newspapers, magazines, trade publications, street cars, billboards, etc. Articles that the manufacturer himself knows to be so good that he invests his reputation and thousands—and in many instances hundreds of thousands—of dollars to tell you about. This page will appear twice a week hereafter. It would be wise, however, to clip it for reference. When you read the magazines compare this list, and note the large number of nationally advertised articles, manufactured in all parts of the world, that can be bought right here in this modern, progressive city of ours. It is well worth while.

Autos, Supplies

Cameron
Automobiles
GEORGE HAGEMAN
Corner Adams and Second St.
Agent.

Klaxonett,
The Electric Auto
Horn that Lets Them Know You are Coming.
MOTOR SUPPLY CO.
37 North Second St.

Hupmobile
Automobiles
"You see them wherever you go."
"They go wherever you see them."
CENTRAL AUTO CO.
Agents.

Maxwell
Automobiles
"The Quality Car."
Collings Vehicle & Harness Company.
Agents.

Pope
Hartford
"The Car that Stands the Test."
State Agent.
W. D. TREMAINE
237 West Washington St.

Reo
Automobiles
"Uphill and downhill and all around the world."
Collings Vehicle & Harness Company.
Agents.

Fisk
Tires
The well known Auto Tire. You can get them at
MOTOR SUPPLY CO.
37 West Second St.

Cigars, Tobacco

CINCO
The Best 5c Cigar
In America. We also carry many other popular brands of smoke goods.
LOVETT DRUG CO.
N. W. Corner of Center & Washington St.

Cuesta Rey
Cigars
BASWITZ CIGAR CO.
Distributors.
Phoenix - Arizona.

Drugs, Sundries

Break-Up
A-Cold
(WEEKS)
You get it at
THE BEAR DRUG STORE
"See Bears in the Window."

Durham-Duplex
Safety Razor
—For Sale at—
ADAMS PHARMACY

Gillette
Safety Razor
A. L. BOEHMER
BUSY DRUG STORE.
N. E. Cor. Central Ave. and Wash.

A. D. S. Remedies
and Preparations
AT ELVEY & HULETT
Quality Druggists. Never Substitute.
27-29 E. Washington St.
Phones: Overland 411. Main 1.

Rexall
Remedies
Satisfaction Guaranteed or money Refunded.
THE OWL DRUG STORE

Thermos
Bottles
A. L. BOEHMER
Busy Drug Store
N. E. Cor. Central Ave. and Wash.

Waterman
Fountain Pens
A. L. BOEHMER
Busy Drug Store
N. E. Cor. Central Ave. and Wash.

Woodbury's
Face Soap
The Best of All
ADAMS PHARMACY
Corner Center and Monroe St.

Buell Mig. Co.
Blankets
They Lead Them All.
SALIM ACKEL
16-18 East Washington St.

Burrowes'
Card Tables
The Best Card Table Made.
Dorris-Heyman Furniture Company

Emmerich
Pillows
For Restful Sleep.
Dorris-Heyman Furniture Company

Macey
Sectional Bookcases
Best for Office and Home.
Dorris-Heyman Furniture Company

Gendron
Go-Carts
Style, Comfort, Individuality, Satisfaction.
MASSIE & SONS

Swing
Comfort Chair
For the Porch or Lawn
Dorris-Heyman Furniture Company

Buck's Stoves
and Ranges
Better to buy one than wish you had.
Dorris-Heyman Furniture Company

Lipton's
Teas
They Can't Be Beat.
—For Sale By—
Reuter-Elwell Grocery Co.

Monarch
Canned Goods
First in Quality.
A. WETZLER
The Live Grocer.

National
Soda Crackers
E. S. Wakelin Grocery Co.
Agents.
Phoenix, Arizona.

Jewelry, etc.
Arizona
Filigree Jewelry
—For Sale By—
SALIM ACKEL
16-18 East Washington St.

Howard
Watches
F. A. Hilderbran & Co.
10-12 West Washington St.

Hawke's
Cut Glass
F. A. Hilderbran & Co.
10-12 W. Washington St.

Pickard
China
F. A. Hilderbran & Co.
10-12 W. Washington St.

Men's Wear
Adler-Rochester
Clothes
The McDougall-Cassou Co.
Exclusive Agents.
30-32 West Washington St.

B. V. D.
Underwear
—For Sale By—
SALIM ACKEL
16-18 East Washington St.

Benjamin
Clothes
Exclusive Agents.
THE HUB
18-20 West Washington St.

W. L. Douglas
Shoes
Can Only Be Had at
THE BOSTON STORE.

Deimel-Linen Mesh
Underwear
The McDougall-Cassou Co.
Exclusive Agents.
30-32 West Washington Street.

Everwear
Hosiery
The McDougall-Cassou Co.
Exclusive Agents.
30-32 West Washington St.

Edwin Clapp
Shoes
The McDougall-Cassou Co.
Exclusive Agents.
30-32 West Washington St.

Eff-Eff
Snits
Each Garment Cut Separately
\$20 to \$35.
—For Sale By—
SALIM ACKEL
16-18 East Washington St.

Ferguson-McKinney
Shirts
We Sell Them.
SALIM ACKEL
16-18 East Washington St.

Hawes
Hats
For Men \$3.00.
Why Pay Five?
The New York Store.
Phoenix, Arizona.

Hart, Schaffner & Marx Clothing
FOR MEN
THE BOSTON STORE

Interwoven
Hosiery
Exclusive Agents
THE HUB
18-20 West Washington St.

Knox
Hats
World Renowned.
The McDougall-Cassou Co.
Exclusive Agents.
30-32 West Washington St.

Manhattan
Shirts
Exclusive Agents.
THE HUB
18-20 West Washington St.

Onyx
Hosiery
The McDougall-Cassou Co.
Exclusive Agents.
30-32 West Washington St.

President
Suspenders
—For Sale By—
SALIM ACKEL
16-18 East Washington St.

Regal
Footwear
For Men and Women.
The New York Store
Phoenix, Arizona.

Sophomore Clothing
for Men
The New York Store
Phoenix, Arizona.

Sunset
Shirts
—For Sale By—
SALIM ACKEL
16-18 East Washington St.

Stetson
Hats
FOR MEN
—For Sale By—
SALIM ACKEL
16-18 East Washington St.

Stetson
Shoes
Exclusive Agents.
THE HUB
18-20 West Washington St.

Selz
Shoes
Exclusive Agent.
SALIM ACKEL
16-18 East Washington St.

Kodaks
Eastman
Kodaks
Complete Photo Stock.
MILLER STERLING CO.
9-11 E. Washington St.

Motorcycles

Excelsior
& Racycle
H. S. GRISWOLD
Agent.
Phoenix, Arizona.

Griswold's
Reinforced Tires
They Stand the Test.
—For Sale By—
H. S. GRISWOLD
Phoenix, Arizona.

Thor
Motorcycles
Let Us Show You Them.
PHOENIX CYCLE CO.
Exclusive Agents for Phoenix and Suburban Towns.

Vale
Motorcycles
PHOENIX CYCLE CO.
Exclusive Agents
Phoenix, Arizona.

Phonographs

Edison
Phonographs
American and Spanish Records.
MILLER STERLING CO.
9-11 East Washington St.

Edison
Phonographs
The Berryhill Co.
Phoenix, Arizona

Victor
Talking Machines
Immense Stock of Records.
MILLER STERLING CO.
9-11 East Washington St.

Pumps

Red Jacket
Pumps
The Peer of Them All.
—For Sale Only By—
GEO. HAGEMAN CO.
Corner Second and Adams Sts.

Plumbing Supplies

Standard Mig. Co.
Fixtures
The Best Obtainable.
—For Sale Only By—
GEO. HAGEMAN CO.
Corner Second and Adams Sts.

Pianos

Vose
Pianos
We are the agents.
REDEWILL'S

Typewriters

Royal
Typewriters
Sell for \$65.00.
The Berryhill Co.
Phoenix, Arizona.

Vehicles

Racine
Vehicles
Ask the Man Who Has One
Collings Vehicle Company.
Phoenix, Arizona.

Women's Wear

Cadet
Hosiery
For Women and Children.
The New York Store
Phoenix, Arizona.

German & Co.
Skirts
—For Sale By—
SALIM ACKEL
16-18 East Washington St.

Kabo
Corsets
On Sale in Phoenix Only at
THE BOSTON STORE

Queen Quality
Footwear
For Women
The New York Store
Phoenix, Arizona.